

CLAIMS

The embodiments of the invention in which an exclusive property or privilege is claimed are defined as follows:

1. An articulating head restraint comprising:

5 a bracket, the bracket having a slot;

an armature contained within the bracket;

a cam having a lock acumination and a stop acumination, the cam fixedly attached to the armature; and

a slide attached to the bracket, the slide moveable within the slot to a locked

10 position so that, when the slide is in the locked position, the lock acumination is in contact with the slide thereby preventing rotation of the armature.

2. The articulating head restraint of claim 1 where the slide has an unlocked position such that when the slide is in the unlocked position, the lock acumination is not in contact with the slide.

15 3. The articulating head restraint of claim 2 further comprising a torsion spring circumferentially disposed about the armature and configured so as to apply a torque on the armature tending to move the armature to a stowed position.

4. The articulating head restraint of claim 3 further comprising at least one rod for attaching a bun.

20 5. The articulating head restraint of claim 4 further comprising a coil spring attached to the bracket and to the slide and configured so as to tend to pull the slide to the locked position.

6. The articulating head restraint of claim 5 further comprising a cable, the cable attached to the slide and configured such that a force applied to the cable will tend to pull the slide to the unlocked position.

7. The articulating head restraint of claim 6 wherein the armature has a first
5 armature end and a second armature end, and the first armature end resides within a bracket hole and the second armature end resides within a slave bracket hole.

8. The articulating head restraint of claim 7 further comprising a tab located in the bracket, the tab configured so as to receive a first end of the torsion spring.

9. The articulating head restraint of claim 8 further comprising:
10 a first rod attached to the armature;
a second rod attached to the armature; and
a second end of the torsion spring, the second end of the torsion spring attached to the second rod.

10. The articulating head restraint of claim 9 further comprising a first Teflon bearing
15 located within the bracket hole and a second Teflon bearing located within the slave bracket hole.

11. The articulating head restraint of claim 10 further comprising a stop rivet attached to the bracket such that the stop acumination will strike the stop rivet to prevent rotation of the armature in a first direction.

20 12. The articulating head restraint of claim 11 where the coil spring is attached to the bracket.

13. The articulating head restraint of claim 12 further comprising a cable rivet, the coil spring attached to the slide by the cable rivet.

14. The articulating head restraint of claim 13 further comprising a cable attached to the cable rivet.

15. The articulating head restraint of claim 14 further comprising a washer, the washer attached to the slide.

5 16. The articulating head restraint of claim 15 further comprising a slave bracket, the slave bracket containing the slave bracket hole, the slave bracket fixedly attached to the bracket.

17. A method of manufacturing an articulating head restraint comprising:
providing an armature, the armature having a first armature end and a second armature end;

10 providing a bracket, the bracket having a bracket hole;
providing a slave bracket, the slave bracket having a slave bracket hole;
inserting the first armature end into the bracket hole;
inserting the second armature end into the slave bracket hole; and
attaching the slave bracket to the bracket.

15 18. The method of manufacturing an articulating head restraint of claim 17 further comprising:

providing a cam; and
attaching the cam to the armature.

19. The method of manufacturing an articulating head restraint of claim 18 further
20 comprising:

providing a slide;
providing a slot within the bracket;
positioning the slide within the slot; and

arranging the slide to prevent rotation of the armature in a first slide position and to allow rotation of the armature in a second slide position.

20. The method of manufacturing an articulating head restraint of claim 19 further comprising:

5 providing a torsion spring;

positioning the torsion spring about the armature, the torsion spring having a first torsion spring end and a second torsion spring end;

attaching the first torsion spring end to the armature; and

10 attaching the second torsion spring end to the bracket such that the torsion spring applies a torque to the armature to cause the armature to rotate to a stowed position.

21. The method of manufacturing an articulating head restraint of claim 20 further comprising:

providing a coil spring, the coil spring having a first coil spring end and a second coil spring end;

15 attaching the first coil spring end to the slide; and

attaching the second coil spring end to the bracket such that the coil spring exerts a force on the slide tending to move the slide to the locked position.

22. The method of manufacturing an articulating head restraint of claim 21 further comprising:

20 providing a cable; and

attaching a cable to the slide such that a force applied to the cable tends to move the slide to an unlocked position.

23. An articulating head restraint comprising:

an armature having a first armature end and a second armature end;

a torsion spring circumferentially disposed about the armature;

a bracket, the bracket having a slot and a bracket hole;

a slave bracket, the slave bracket having a slave bracket hole;

5 a cam attached to the armature, the cam having a lock acumination and a stop acumination; and

a slide moveable within the slot from a locked position to an unlocked position,

such that when the slide is in the locked position, the lock acumination is in contact with the

slide such that the cam is prohibited from rotating, thereby preventing the armature from

10 rotating.

24. The articulating head restraint of claim 23 further comprising a coil spring, the coil spring tending to move the slide to the locked position.

25. The articulating head restraint of claim 24 further comprising a cable, the cable attached to the slide such that when a force is applied to the cable, the slide tends to move to the

15 unlocked position.

26. The articulating head restraint of claim 25 further comprising a stop for prohibiting motion of the armature.

27. The articulating head restraint of claim 26 where the stop is a stop rivet, and the stop acumination is arranged to contact the stop rivet to prohibit motion of the armature.

20 28. The articulating head restraint of claim 27 further comprising a tab, the tab connected to the bracket, the torsion spring having a first torsion spring end, where the first torsion spring end is attached to the tab.

29. The articulating head restraint of claim 28 further comprising a first rod and a second rod are attached to the armature, and the torsion spring is attached to the second rod.